

Applicant: Nestor RODRIGUEZ-AMAYA et al.
Docket No. R.306744
Preliminary Amdt.

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-7. (Canceled)

8. (New) A valve for controlling a connection in a high-pressure fluid system, in particular in a fuel injection apparatus for an internal combustion engine, the valve having a valve member guided for sliding movement in the direction of its longitudinal axis and protruding into a valve pressure chamber in which high pressure prevails at least some of the time, a sealing surface on the valve member in the valve pressure chamber at an end extending transversely in relation to its longitudinal axis, the sealing surface of the valve member cooperating with a valve seat in the valve pressure chamber and extending transversely in relation to its longitudinal axis in order, at least to a large extent, to close an opening encompassed by the valve seat in relation to the valve pressure chamber which opening is adjoined by a connection leading to a low-pressure region, a pin on the valve member, the pin protruding into the connection and, when the sealing surface of the valve member is lifted away from the valve seat, this pin conveys fluid flowing out of the valve pressure chamber in such a way that the outgoing fluid exerts at least approximately no resulting force or only a slight resulting force on the valve member in the direction of the longitudinal axis.

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9. (New) The valve according to claim 8, wherein the pin initially deflects fluid flowing out of the valve pressure chamber in such a way that the fluid flows along the valve member into the connection at least approximately in the direction of the longitudinal axis of the valve member.

10. (New) The valve according to claim 9, wherein the pin then deflects the outgoing fluid so that it flows away from the longitudinal axis of the valve member at an angle γ in relation to this longitudinal axis.

11. (New) The valve according to claim 8, wherein the pin has a circumferential annular groove for flow deflection, which groove extends in the direction of the longitudinal axis of the valve member, at least approximately to the level of the sealing surface of the valve member.

12. (New) The valve according to claim 9, wherein the pin has a circumferential annular groove for flow deflection, which groove extends in the direction of the longitudinal axis of the valve member, at least approximately to the level of the sealing surface of the valve member.

13. (New) The valve according to claim 10, wherein the pin has a circumferential annular groove for flow deflection, which groove extends in the direction of the longitudinal axis of

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the valve member, at least approximately to the level of the sealing surface of the valve member.

14. (New) The valve according to claim 8, wherein the valve seat and/or the sealing surface on the valve member is embodied so that the distance between the sealing surface and the valve seat, starting from the outer edge of the valve member, first decreases as it extends radially inward toward the longitudinal axis of the valve member and then increases again as it continues to extend radially inward.

15. (New) The valve according to claim 9, wherein the valve seat and/or the sealing surface on the valve member is embodied so that the distance between the sealing surface and the valve seat, starting from the outer edge of the valve member, first decreases as it extends radially inward toward the longitudinal axis of the valve member and then increases again as it continues to extend radially inward.

16. (New) The valve according to claim 10, wherein the valve seat and/or the sealing surface on the valve member is embodied so that the distance between the sealing surface and the valve seat, starting from the outer edge of the valve member, first decreases as it extends radially inward toward the longitudinal axis of the valve member and then increases again as it continues to extend radially inward.

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17. (New) The valve according to claim 11, wherein the valve seat and/or the sealing surface on the valve member is embodied so that the distance between the sealing surface and the valve seat, starting from the outer edge of the valve member, first decreases as it extends radially inward toward the longitudinal axis of the valve member and then increases again as it continues to extend radially inward.

18. (New) The valve according to claim 14, wherein the sealing surface of the valve member is embodied as at least approximately planar.

19. (New) The valve according to claim 15, wherein the sealing surface of the valve member is embodied as at least approximately planar.

20. (New) The valve according to claim 16, wherein the sealing surface of the valve member is embodied as at least approximately planar.

21. (New) The valve according to claim 17, wherein the sealing surface of the valve member is embodied as at least approximately planar.

22. (New) The valve according to claim 14, wherein the valve seat is embodied as at least approximately planar.

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23. **(New)** The valve according to claim 15, wherein the valve seat is embodied as at least approximately planar.

24. **(New)** The valve according to claim 16, wherein the valve seat is embodied as at least approximately planar.

25. **(New)** The valve according to claim 17, wherein the valve seat is embodied as at least approximately planar.